



208859.ST25
SEQUENCE LISTING

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Kovesdi, Imre
Wickham, Thomas J

<120> ADENOVIRAL CAPSID CONTAINING CHIMERIC PROTEIN IX

<130> 208859

<140> US 09/780,224

<141> 2001-02-09

<150> US 60/181,163

<151> 2000-02-09

<160> 15

<170> PatentIn Ver. 3.1

<210> 1

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<213> Adenovirus

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Gln Asn Val Val Gly Ser Thr Val Asp Gly Arg Pro Val Ala Pro Ala
35 40 45

Asn Ser Ser Thr Leu Thr Tyr Ala Thr Ile Gly Pro Ser Pro Leu Asp
50 55 60

Thr Ala Ala Ala Ala Ala Ala Ser Ala Ala Ala Ser Thr Ala Arg Ser
65 70 75 80

Met Ala Ala Asp Phe Ser Phe Tyr Asn His Leu Ala Ser Asn Ala Val
85 90 95

Thr Arg Thr Ala Val Arg Glu Asp Ile Leu Thr Val Met Leu Ala Lys
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Gly Gly Val Val Leu Pro Pro Asn Ser Gln Ala His Arg Thr Glu Thr
 35 40 45

Val Gly Thr Glu Ala Thr Arg Asp Asn Leu His Ala Glu Gly Ala Arg
 50 55 60

Arg Pro Glu Asp Gln Thr Pro Tyr Met Ile Leu Val Glu Asp Ser Leu
 65 70 75 80

Gly Gly Leu Lys Arg Arg Met Asp Leu Leu Glu Glu Ser Asn Gln Gln
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Gly Gly Val Val Leu Pro Pro Asn Ser Gln Ala His Arg Thr Glu Thr
 35 40 45

Val Gly Thr Glu Ala Thr Arg Asp Asn Leu His Ala Glu Gly Ala Arg
 50 55 60

Arg Pro Glu Asp Gln Thr Pro Tyr Met Ile Leu Val Glu Asp Ser Leu
 65 70 75 80

Gly Gly Leu Lys Arg Arg Met Asp Leu Leu Glu Glu Ser Asn Gln Gln
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Leu Leu Ala Thr Leu Asn Arg Leu Arg Thr Gly Leu Ala Ala Tyr Val
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 Ser Ile Asp Gly Arg Pro Val Leu Pro Ala Asn Ser Thr Thr Leu Thr
 35 40 45
 Tyr Glu Thr Val Ser Gly Thr Pro Leu Glu Thr Ala Ala Ser Ala Ala
 50 55 60
 Ala Ser Ala Ala Ala Ala Thr Ala Arg Gly Ile Val Thr Asp Phe Ala
 65 70 75 80
 Phe Leu Ser Pro Leu Ala Ser Ser Ala Ala Ser Arg Ser Ser Ala Arg
 85 90 95
 Asp Asp Lys Leu Thr Ala Leu Leu Ala Gln Leu Asp Ser Leu Thr Arg
 100 105 110
 Glu Leu Asn Val Val Ser Gln Gln Leu Leu Asp Leu Arg Gln Gln Val
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 Ser Ala Leu Lys Ala Ser Ser Pro Pro Asn Ala Val
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 35 40 45
 Tyr Glu Thr Val Ser Gly Thr Pro Leu Glu Thr Ala Ala Ser Ala Ala
 50 55 60
 Ala Ser Ala Ala Ala Ala Thr Ala Arg Gly Ile Val Thr Asp Phe Ala
 65 70 75 80
 Phe Leu Ser Pro Leu Ala Ser Ser Ala Ala Ser Arg Ser Ser Ala Arg

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Asp Asp Lys Leu Thr Ala Leu Leu Ala Gln Leu Asp Ser Leu Thr Arg
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Glu Leu Asn Val Val Ser Gln Gln Leu Leu Asp Leu Arg Gln Gln Val
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Asn Ser Thr Thr Leu Thr Tyr Ala Thr Ile Gly Ser Ser Val Asp Thr
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Ala Ala Ala Ala Ala Ala Ser Ala Ala Ala Ser Thr Ala Arg Gly Met
65 70 75 80

Ala Ala Asp Phe Gly Leu Tyr Asn Gln Leu Ala Ala Ser Arg Leu Arg
85 90 95

Glu Glu Asp Ala Leu Ser Val Val Leu Thr Arg Leu Glu Glu Leu Ser
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Gln Asn Val Met Gly Ser Asn Val Asp Gly Arg Pro Val Ala Pro Ala
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Asn Ser Ala Thr Leu Thr Tyr Ala Thr Val Gly Ser Ser Val Asp Thr
50 55 60

Ala Ala Ala Ala Ala Ser Ala Ala Ala Ser Thr Ala Arg Gly Met
65 70 75 80

Ala Ala Asp Phe Gly Leu Tyr Asn Gln Leu Ala Ala Ser Arg Ser Leu
85 90 95

Arg Glu Glu Asp Ala Leu Ser Val Val Leu Thr Arg Met Glu Glu Leu
100 105 110

Ser Gln Gln Leu Gln Asp Leu Phe Ala Lys Val Ala Leu Leu Asn Pro
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 Asn Xaa Asp Gly Arg Pro Val Leu Pro Ala Asn Ser Xaa Thr Leu Thr
 35 40 45
 Tyr Glu Thr Val Gly Xaa Xaa Xaa Xaa Thr Ala Ala Ala Ala Ala
 50 55 60
 Ser Ala Ala Ala Xaa Thr Ala Arg Gly Xaa Xaa Xaa Asp Phe Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Leu Ala Xaa Ser Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Glu

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Asp Xaa Leu Xaa Xaa Leu Leu Ala Xaa Leu Xaa Xaa Leu Xaa Xaa Xaa
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 115 120 125

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Thr Arg Leu Pro Lys Trp Ala Gly Val Arg Gln Asn Val Met Gly Ser
 20 25 30

Asn Val Asp Gly Arg Pro Val Leu Pro Ala Asn Ser Thr Thr Leu Thr
 35 40 45

Tyr Glu Thr Val Gly Gly Ser Leu Asp Thr Ala Ala Ala Ala Ala Ala
 50 55 60

Ser Ala Ala Ala Ser Thr Ala Arg Gly Met Ala Ala Asp Phe Gly Phe
 65 70 75 80

Tyr Asn Leu Leu Ala Ser Ser Ala Gly Gly Arg Ser Ser Ala Arg Glu
 85 90 95

Asp Ala Leu Thr Val Leu Leu Ala Thr Leu Glu Ser Leu Thr Thr Gln
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Ala Val
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 35 40 45
 Gly Val Arg Gln Asn Val Met Gly Ser Ser Ile Asp Gly Arg Pro Val
 50 55 60
 Leu Pro Ala Asn Ser Thr Thr Leu Thr Tyr Glu Thr Val Ser Gly Thr
 65 70 75 80
 Pro Leu Glu Thr Ala Ala Ser Ala Ala Ala Ser Ala Ala Ala Thr
 85 90 95
 Ala Arg Gly Ile Val Thr Asp Phe Ala Phe Leu Ser Pro Leu Ala Ser
 100 105 110
 Ser Ala Ala Ser Arg Ser Ser Ala Arg Asp Asp Lys Leu Thr Ala Leu
 115 120 125
 Leu Ala Gln Leu Asp Ser Leu Thr Arg Glu Leu Asn Val Val Ser Gln
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35 40 45
Tyr Glu Thr Val Ser Gly Thr Pro Leu Glu Thr Ala Ala Ser Ala Ala
50 55 60
Ala Ser Ala Ala Ala Ala Thr Ala Arg Gly Ile Val Thr Asp Phe Ala
65 70 75 80
Phe Leu Ser Pro Leu Ala Ser Ser Ala Ala Ser Arg Ser Ser Ala Arg
85 90 95
Asp Asp Lys Leu Thr Ala Leu Leu Ala Gln Leu Asp Ser Leu Thr Arg
100 105 110
Glu Leu Asn Val Val Ser Gln Gln Leu Leu Asp Leu Arg Gln Gln Val
115 120 125
Ser Ala Leu Lys Ala Ser Ser Pro Pro Asn Ala Val Ser Ser Gly Ser
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